

CRATERS IN THE LAB

by Thunderbolts.info and Amy Acheson (Managing Editor) © 2004

How do you make a crater? Scientists have been asking that question ever since Galileo turned his telescope on the Moon in 1610. The discussion was between those who thought craters were made by volcanoes and those who thought craters were made by impacts. In the late 20th century, geologists on Earth and astronauts on the Moon showed that they weren't volcanic. The impact hypothesis won by default.

But there is a third possibility, one that has now been explored in detail by advocates of the "electric universe". The craters in the photo below were made in a laboratory by electric discharge. This cratered surface duplicates many characteristics of planetary geology. The craters tend to clump according to size, to fall in lines and arcs. Notice also that the ground appears burnt or discoloured where the discharge was strongest and the craters the densest—

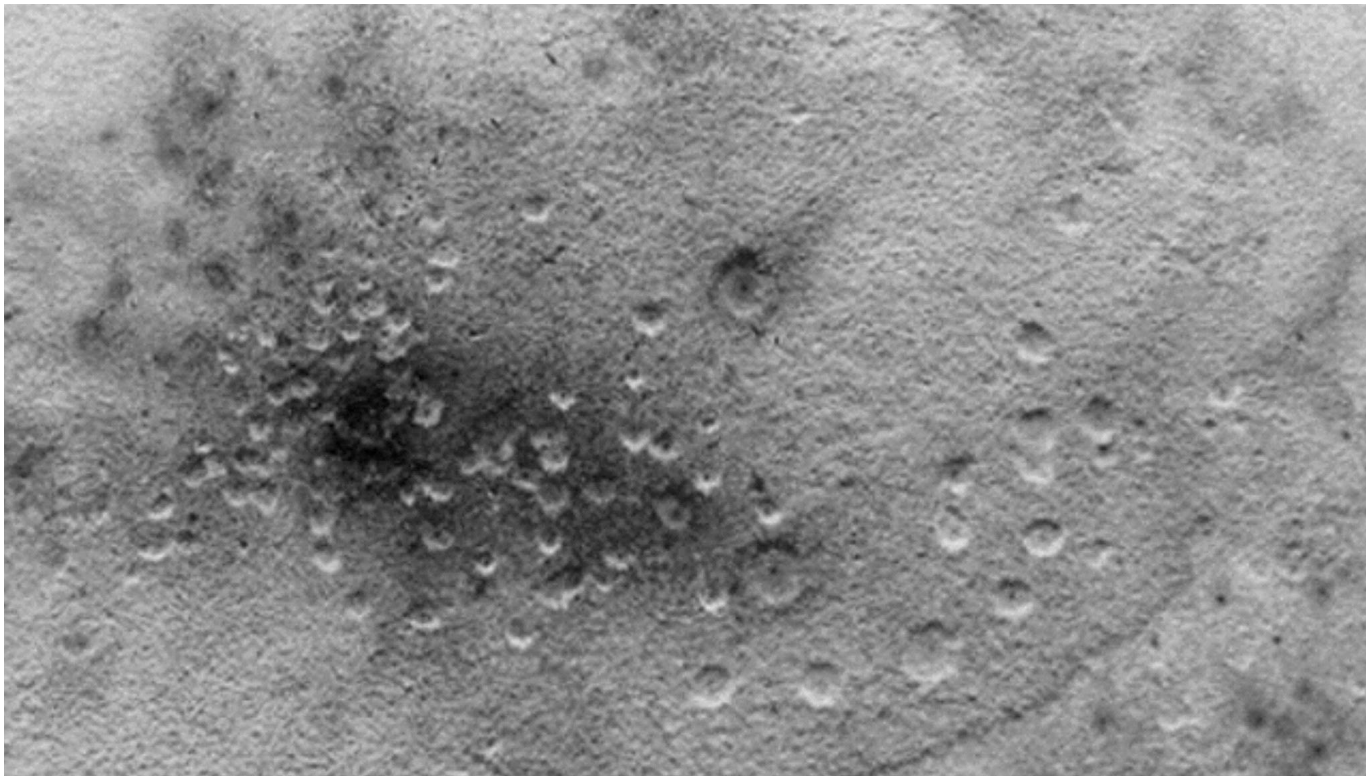
not unlike the surface of Mars and other rocky bodies in the solar system. The centres of some of the craters have bumps, as do many enigmatic craters on the Moon, Mars and other surfaces. Also of interest are the dark streaks from two larger craters close to the centre of the picture, a pattern similar to the "wind-streaked" craters found on Mars.

This third possibility was first voiced in the 1960s. But astronomers have had little interest in such lines of investigation because they have long assumed that electric forces cannot reach across the vacuum of space. However, numerous space-age findings have contradicted that belief. From the discovery of the Van Allen radiation belts in 1958 to the latest discoveries of galactic magnetic fields and X-ray galactic clusters, it has become increasingly clear that charged particles fill what once was called the "void" of space. Electrical activity is pervasive across both interplanetary and interstellar space.

Is it possible that our solar system was

once more active electrically than it is today? When electric sparks strike a solid surface, they can produce not only craters but many other common geological features as well. Experimental research on the electrical etching of rocky surfaces must therefore be a priority. According to the electrical theorists, most of the large-scale geological features in our solar system can *only* be generated by electric arcs. And if this is true, then the actual history of our solar system bears little or no resemblance to textbook descriptions.

(Source: Thunderbolts Picture of the Day for July 2, 2004, by Mel Acheson and C. J. Ransom; posted at <http://www.thunderbolts.info/tpod/2004/arch/040702craters.htm>. The experiment was performed at Vemasat Research Institute by C. J. Ransom, PhD, and Wal Thornhill, BSc, who are both members of the IEEE. Ransom is also a member of the American Physical Society. Wal Thornhill is the author of *The Electric Universe*; see <http://www.electric-universe.info>.)



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AN INTRODUCTION TO PARALLEL UNIVERSES

by Karen Klockner and David Brennan
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Abstract

The following article describes a rather odd incident and attempts to give explanation in the light of new findings and directions in the realm of quantum mechanics and theoretical physics.

The article is intended to provide the reader with a brief background into the current theories used to explain disappearances into parallel universes and the resulting time perception changes. Whilst the first part provides the reader with further references to writings in this area, the second part explains in layperson's terms how such phenomena could occur. Physics theories and spirituality beliefs are related to give the reader a picture of explanations from various but congruent perspectives for this paranormal experience.

Altered States

In the winter of 2002 a dressage rider having a lesson disappeared off the arena in front of the instructor, returning a few seconds later. The rider and instructor were unable to explain the phenomenon.

The rider had experienced a feeling of complete weightlessness and a visual perception of entering a haze-type atmosphere which appeared to be in another time dimension, but had still been conscious of being on the horse. The instructor acknowledged the disappearance of both horse and rider.

There is a growing bank of recorded tangible evidence that athletes experience changes in the perception of time. The perception of time speeding up or slowing down, especially during athletic performance, has been voiced by many famous identities who have experienced this variation in time perception.

The rider mentioned above had been experimenting with these time change occurrences through practical experience both at home and out at competition. The rider had come to regularly experience riding in a state of complete slow motion, described as a total perceptual awareness of nothing else but each step of the horse, taking perhaps five or 10 seconds—within which time the rider feels they have the ability to control every human movement with as much ease as needed and in as much time as required. The rider had been practising this distorted perception to determine whether the state of altered time consciousness could be entered into upon demand.

These changes in time perception are occurring in a similar psychological environment to what sports psychologists describe as an athlete being *in the zone* or *in the flow*, i.e., having an altered perception of transcending to a heightened level of mental awareness rather than of physical awareness. However, the experience of actually moving through a portal towards another dimension in space and time is in itself vastly different.

Paranormal Physics

Murphy and White (1995) have written an extensive account of some 6,500 stories of transcendent experiences and provide insight into just how many people are experiencing unexplained phenomena. The concept of time differentials is a growing area of interest in both investigations of the paranormal and in later theoretical physics work. Physicists are currently working on some very interesting theories which may ultimately help explain these types of occurrences, and which are briefly mentioned here.

Talbot (1991) states that "two of the world's most eminent thinkers", physicist David Bohm, a former protégé of Einstein, and quantum physicist Karl Pribram, pioneered the holographic paradigm, which basically states that the world as we view it is nothing more than a hologram, made up of "projections from a level of reality so beyond our own it is literally beyond both space and time" (p. 1).

Work by David Hawkins (1998) on the inquiry into human consciousness discusses the acceptance of David Bohm's idea of both an invisible *implicate* ("enfolded") order and a manifest *explicate* ("unfolded") order. Hawkins's study is comprehensive and describes his finding for a "wormhole between two universes—the physical world, and the world of the mind and spirit—an

interface between dimensions"; it also notes that the scientific insights reported correspond with the views of reality as passed down through history by enlightened sages who had evolved beyond consciousness to a state of pure awareness (p. 299).

The human energy field has been described as having a higher frequency or vibration than normal matter-energy. Hindu literature asserts that the energy body possesses a higher vibration than normal matter (Talbot, 1991).

It is put forward that human beings are made up of energy that is vibrating in a certain pattern—normally, particles forming a wave pattern. A wave is defined as a "vibrational pattern in space and time" (Capra, 1976). Capra wants readers to "picture our wave packet not as a pattern in space but as a vibrational pattern in time...the vibrational pattern represents therefore the uncertainty in the temporal location of the event" (p. 168).

If the vibrational rate of a human energy field could be increased to match that of another field vibrating at the same rate, the possibility could exist that the two energies would meld into one, the two parallels merging, perhaps resulting in the human energy field transcending into the different time and space dimensions of the other field.

Time anomalies continue to be experienced and ever increasingly reported. Talbot (1991) postulates: "Is the boundary between the present and the past so flimsy that we can, under the right circumstances, stroll back into the past...? At present we simply do not know, but in a world that is comprised less of solid objects traveling in space and time, and more of ghostly holograms of energy sustained by processes that are at least partially connected to human consciousness, such events may not be as impossible as they appear" (p. 228).



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Studies into the Bermuda Triangle have led to theories that the disappearances are related to the planet operating on electromagnetism which could create vortices through which material objects can drop into or out of other space-time continuums (Berlitz, 1975). Whilst some believe that these portals exist and allow people to move through to other time dimensions, the central tenet of the situation is that there exists an energy field that enables vibrational fields to align and thus transcend one dimension to another dimension.

Experiences of this kind abound throughout history and the phenomenon cannot be related exclusively to any one race, group, religion or time period. The phase-shift experience has not only been the province of the individual, but also at times witnessed by groups of people who have gathered together for a singular purpose such as religious worship.

Physicists of the modern era have endeavoured to solve the big picture of life, the universe and everything by progressively making sense of and describing the laws of physics as their understanding of the subject gains breadth and depth.

One of the seemingly impossible theories that keeps coming back to haunt the theoretical physicists is the question of travel within this universe and, progressively, travel between parallel universes—leading to the theory of *multiverses*. There is an increasing consensus between different groups of scientists that the parallel universe/multiverse—once thought of as pure science fiction—may be entirely possible.

Ancient Writings

Having said that, let's examine the possibilities from an historical perspective. It is not expected for one moment that everyone will agree on the following explanation; it is merely an attempt to explain the authors' personal understanding of the issue.

Down through the ages, many races, cultures and philosophies have alluded in their writings to the existence of other dimensions. This has more often than not been expressed in the religious beliefs predominating within a culture, rather than in any of the other areas of the culture's existence.

One of the problems people in the modern age have in identifying ancient references to other dimensions or universes is dealing with the language and time/culture differences; in other words, how the culture described what

they believed or knew, as opposed to how we describe what we believe or know. Eminent theologian Dr Barbara Thiering, in her groundbreaking book *Jesus the Man* (1992), describes the considerable work involved in translating the ancient biblical texts into a form which can convey the exact context of what the ancients were trying to relate. The only way those ancient cultures could relate a phenomenon that they could not understand was to refer it to an act of the Divine.

With this in mind, Christianity's references to heaven having many mansions, the Shinto religion's references to seven heavens and the Hindu references to the many levels and aspects of Krishna would indicate other dimensions or levels of existence. These are only three of the better-known examples of what are perceived as references to what researchers in the modern age would call parallel universes or multiverses. Combine these

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with historical records from the Indian sub-continent of yoga masters who could *move in and out of the spirit worlds at will*, and you have a very good reference for the existence of other realms that could well be running parallel to our own. Countless other examples from many countries and time periods could be listed, but the point has been made.

It has been known and recorded in China for some 3,000 years that many parallel realities exist in the same space and at the same time and are kept separate by vibratory differences in the energies. The famous *Tao Te Ching* (Lao Tzu, 400 BCE) describes nothing less than the formation of the universe. Because the ancient Tao masters knew that there are many parallel realities, they developed ways of accessing these by studying the ways in which energy works within given sets of circumstances.

To the Tao master, the only thing that exists in any universe is energy, and the existence of all other phenomena is related directly to that energy and governed by it

under immutable universal laws.

Most readers would recognise the law of physics which states that energy can neither be created nor destroyed, only changed in form. Energy therefore comes in many and varied forms, and some of those can only be recognised by their effects on the environment and human senses rather than actually being seen by the eye.

Dimensional Doorways

How, then, does the phenomenon experienced by the rider occur?

Let's start with the mind and how certain types of actions have the ability to expand the mind's perceptions over and above what would be termed "normal reality". As is noted in all cases where this phenomenon occurs, the human being is either subjected to extremes of physical, mental, emotional or psychological stress or is so submerged in

concentration on what is occurring at the moment that the environment around them disappears from their consciousness for a short period of time, allowing their mind to achieve a state of absolute calm. This state is almost exactly the same as that reached by persons in deep-level meditation.

Psychologists have been able to measure these altered mind-states for many years and have amassed a good deal of evidence from subjects' reports of being transported to an alternate reality where everything seemed to be the same as normal, with the exception

that their senses were radically enhanced and everything seemed to be much more alive than in normal reality. The subjects also reported moving through what appeared to be a type of whitish haze before moving into the clear, alternate reality.

It is our contention that this is the first stage of the process of achieving a frequency level with the mind that harmonises with the frequencies of the dimensional doorways, allowing the person to temporarily move into a parallel reality and thus seem to disappear from this reality.

Traditionally science has dismissed this phenomenon as myth, generally reported by people who were both superstitious and easily swayed by religious piety. Things have changed, however, and scientists are now trying to solve seemingly impossible phenomena undreamed of as close as 30 years ago.

Tipler's (1994) *The Physics of Immortality* sees science and religion appearing to agree, at least in theory, on God, the Universe and Everything. Super-string theory, black holes,

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singularities and a whole host of other seemingly absolute impossibilities are now being argued over regularly in the science institutes of the world. What could only be thought of as absolutely impossible not so many years ago is now not only possible but also entirely feasible during the next 50 years.

The question of parallel universes or multiverses is driven by our desire to explain the seemingly unexplainable and by the fact that science has found out that the universe is definitely finite.

Disappearing Aircraft

One of these seemingly inexplicable events that could only be explained with the theory of parallel universes is that of a commercial flight *en route* from Jamaica to Florida in the mid-1980s (as featured in a TV documentary called *The Devil's Triangle*). The pilots of the aircraft could see the Florida coastline at night from about 45 minutes out and started landing preparations. Meanwhile in the tower, all signs of the aircraft had disappeared from the radar and emergency procedures were being enacted to start a search for the missing aircraft. The pilots, unaware of the concern on the ground, called the tower for landing instructions, as routine, and were surprised to learn that they were just about to have search aircraft take off to look for them.

When the aircraft landed, the pilots were told they had been missing for almost 30 minutes. Further, the aircraft clocks and the timepieces of everyone on the aircraft were found to be 30 minutes behind the clocks at the tower.

The other point of mention in this event is that the pilots of the aircraft never lost sight of the Florida coastline. The only other thing they did notice was the absence of radio traffic, but they passed it off as a quiet period.

There are literally hundreds of reports that have similarities to this, from people of many different backgrounds who could in no way be taken as cranks or sensation-seekers.

The "M Theory" of Multiverses

Dr Michio Kaku, Emeritus Professor of Theoretical Physics at MIT, together with a group of other equally eminent physicists, is now looking at what is termed *M theory*. The "M" can mean *Membrane* or *Multiverse*, and it is a theory that has the possibility of showing us not only how the universe was created but also how to *create* a universe.

The closest explanation, in normal language, for the phenomenon of multiverses and their creation comes from using the example of a bottle of soft drink. While the

liquid is sealed within the bottle, the contents seem stable; but when the cap is unscrewed, the gas that is dissolved within the liquid reforms into gas and makes its way to the surface of the liquid.

Now if you pay close attention to what is happening within the liquid, the gas bubbles seem to appear out of nowhere; they rise and collide and form new bubbles, and there are thousands of them moving around in the same medium at once. The liquid, in this case, is the medium that allows for the formation of the bubbles, but what we cannot see are the currents and pressures that are operating at the sub-visual level within the liquid medium.

Now think of each bubble as a universe and the liquid as the membrane that supports the formation and movements of those universes. The unseen forces, in this case, are the currents and pressures that scientists refer to as the electromagnetic forces that act as *sheet dimensions*; they fulfill the same role as the surface tensions that surround each bubble in the bottle of soft drink. As in the soft drink, sometimes the bubbles will join at the surface tension areas at their edge, but not completely, still disturbing the membrane wall of each bubble.

Looked at in the light of M theory, this is one way of explaining the momentary disappearance of our rider and of other similar phenomena that have been reported hundreds of times down through history by people from many different backgrounds.

To finalise, one thing is sure: at the rate that our best theoretical physicists are solving what were once seemingly impossible phenomena, there is every possibility that those searching for the real answers shall be provided with them in the not-too-distant future.

Whilst this explanation is from the authors' own studies into unexplained phenomena, the authors in no way claim to know the answers to God, the Universe and Everything.

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"Wow, I bet somewhere in another universe, right at this moment, there are two people walking out of a cinema also wishing they hadn't just wasted two hours of their lives."